

# A NEW SPECIES OF THE SPIDER GENUS NESTICUS FROM THE CAVE OF CHINA (ARANEAE, NESTICIDAE)

CHEN HuiMing<sup>1</sup>, ZHU MingSheng<sup>2</sup>

1. Research Department, Maolan National Nature Reserve, Libo, Guizhou 558400, China  
2. College of Life Sciences, Hebei University, Baoding, Hebei 071002, China

**Abstract** A new species of the family Nesticidae is described from Guizhou Province, named *Nesticus libo* sp. nov.  
**Key words** Araneae, Nesticidae, *Nesticus*, new species, China.

Nesticidae is a small family with 9 genera and 203 species reported from all over the world (Platnick, 2005). Among them, five species of the genus *Nesticus* are recorded from China (Chen & Zhu, 2004), but species of the genus *Nesticus* have not been recorded in China. This paper deals with a new species of the family Nesticidae from Maolan National Natural Reserve, Libo, Guizhou Province, China, named *Nesticus libo* sp. nov. Type specimens are deposited in the Research Department, Maolan National Nature Reserve (1°, 26'N, 107°48'E), Libo, Guizhou Province, China and the College of Life Sciences, Hebei University (1°, 26'N, 107°48'E), Baoding, China. All measurements given are in millimeters.

*Nesticus libo* sp. nov. (Figs 125)

**Diagnosis.** The new species is similar to *Nesticus uenoi* Yaginuma, 1972 (296, figs. 24226, 47, 49), but differs from the latter by: median apophysis of male palpal organ pestle like versus curved in *N. uenoi*, inner branch of paracymbium much larger; and median septum of epigynum trapeziform versus almost rectangular in *N. ueno*.

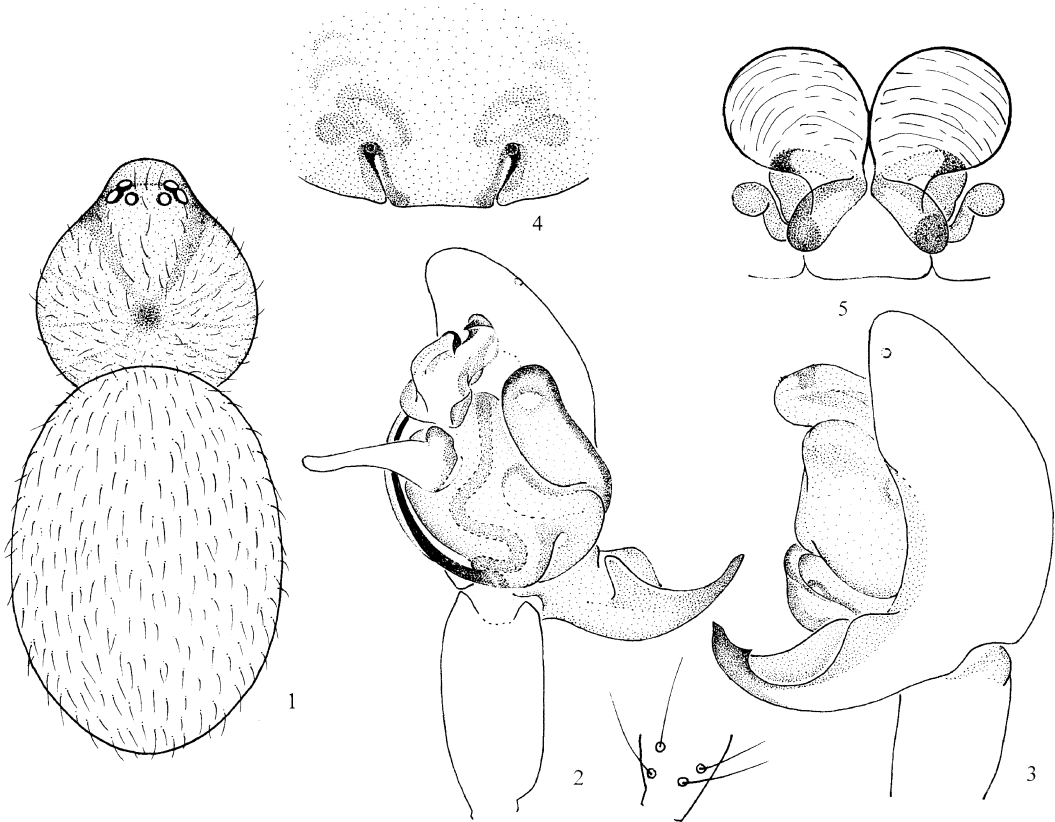
**Male.** Total length 218723115. Holotype total length 3115, cephalothorax 1143 long, 1143 wide; abdomen 1198 long, 1126 wide. Carapace light orange, with brownish setae. Fovea and radial furrow deep. Six eyes, with AME absent. Posterior eye row recurved. ALE2ALE (0123), PME2PME> PME2PLE (0113B0106). ALEBPMEBALE (0110B0108B0110). Clypeus height 0135. Chelicerae light orange, with three teeth on promargin and none on retromargin. Labium, endites and sternum all light orange. Legs

with many setae and weak spines. Measurements of palp and legs: palp 2160 (1112, 0127, 0145, 0176); leg I 17127 (4195, 5189, 5104, 1139), II 12133 (3169, 4114, 3133, 1117), III 8199 (2188, 2179, 2138, 0194), IV 16124 (3196, 3196, 3124, 1112). Leg formula: 1423. Abdomen oval, yellowish brown, dorsum with sparse yellowish brown setae and many dark spots. Tibia of palp long, with four trichobothria; conductor wide, with two distal branches, one of them prolaterally pointed; median apophysis large, pestle like, embolus posteriorly originating, tip of embolus almost Cshaped; tegular projection absent; paracymbium long, with two branches.

**Female.** Total length 219723114. A female total length 2197 measured: cephalothorax 1126 long, 1126 wide; abdomen 1198 long, 1139 wide. Legs light orange. Measurements of legs: I 7156 (3196, 4159, 3178, 1135), II 5149 (2197, 3115, 2152, 1108), III 4132 (2125, 2107, 1171, 0181), IV 5194 (3133, 3106, 2134, 0199). Abdomen earthy yellow, with many dark spots. Other characters as in male. Epigynum simple, lacking scape, median septum trapeziform, copulatory openings distinct, spermathecae membranous and spherical, copulatory ducts curved.

Holotype, paratypes 1, 4, Wengwai Cave, Maolan National Natural Reserve, Libo (25°24'N, 107°48'E), Guizhou Province, China, 13 Nov. 2000, collected by CHEN HuiMing.

**Etymology.** The specific name refers to the locality, and is a noun in apposition.



Figs 25. *Nesticus libo* sp. nov. 1. Female , dorsal view. 2. Left palp of the male, ventral view. 3. Same, lateral view. 4. Epigynum, ventral view. 5. Same, dorsal view.

REFERENCES

Lehtinen, P. T. and Saaristo, M. I. 1980. Spiders of the Oriental Australian Region. 0. Nesticidae. Ann. Zool. Fennici, 17: 47266.  
Platnick, N. I. 2005. The world Spider Catalog, Version 6. 0. American Museum of Natural History, online at <http://research.amnh.org/entomology/spiders/catalog/index.html>  
Song, LX, Zhu, MS and Chen, J 1999. The spiders of China. Hebei Science and Technology Publishing House, Shijiazhuang. 640pp.  
Tso, I. M. and Yoshida, H. 2000. A new species of the genus Nesticella (Araneae: Nesticidae). Acta Arachnologica, 49 (1): 1216.  
Yaginuma, T. 1970. Two new species of small nesticid spiders of Japan. Bull. Natn. Sci. Mus., 13: 3852394.

Yaginuma, T. 1972. The fauna of the Lava Caves around Mt. Fujisan. Araneae (Arachnida). Bull. Natn. Sci. Mus., 15 (2): 272334.  
Yaginuma, T. 1979. A study of the Japanese species of nesticid spiders. Fac. Let. Rev. Otomon Gakuin Univ., 13: 2552287.  
Yaginuma, T. 1986. Spiders of Japan in color (new ed.). Hikosha, Osaka. 305pp.  
Chen, ZF 1984. A new species of spider of the genus Nesticus from China (Araneae: Nesticidae). Acta Zootaxon. Sin., 9 (1): 34236. [动物分类学报]  
Chen, HEM and Zhu, MS 2004. A new cave spider of the genus Nesticella from China (Araneae: Nesticidae). Acta Zootaxon. Sin., 29 (1): 87288. [动物分类学报]

中国洞穴产类球蛛属蜘蛛一新种 (蜘蛛目, 类球蛛科)

陈会明<sup>1</sup> 朱明生<sup>2</sup>

- 1. 贵州茂兰国家级自然保护区管理局 贵州荔波 558400
- 2. 河北大学生命科学学院 保定 071002

**摘要** 记述产自贵州省荔波县茂兰国家级自然保护区的类球蛛科类球蛛属 1 新种, 命名为荔波类球蛛 *Nesticus libo* sp. nov.。模式标本保存在贵州茂兰国家级自然保护区管理局科研科和河北大学生命科学学院。  
正模<sup>1</sup>, 副模 1<sup>1</sup>, 4 a a, 贵州茂兰国家级自然保护区

区翁外洞, 2000 年 11 月 13 日, 陈会明采。  
鉴别特征: 新种近似于上野类球蛛 *Nesticus uenoi* Yaginuma, 1972 (296, figs. 24226, 47, 49), 但其雄蛛触肢器的中突呈杵状, 副跗舟的内侧分叉大; 雌蛛外雌器的中隔呈梯形, 而不同于后者。

**关键词** 蜘蛛目, 类球蛛科, 类球蛛属, 新种, 中国。  
**中图分类号** Q9591.226